AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions of claims in the application:

1. (Currently Amended) A method for detecting concealed items on or in an object, the method comprising:

producing a pencil beam of x-rays from an x-ray source directed toward said object; scanning said beam of x-rays over the surface of said object; and

detecting x-rays scattered from said beam of x-rays as a result of interacting with said object and a low Z material panel, said object located between said detector and said panel, wherein said object and concealed items transmit substantially no through x-rays.

- 2. (Original) The method of claim 1 further comprising generating a signal representative of the intensity of the x-rays scattered.
- 3. (Original) The method of claim 2 further comprising presenting said signal on a display.
- 4. (Original) The method of claim I wherein said low Z material panel is made polyethylene.
- 5. (Original) The method of claim 1 wherein said low Z material panel is made of epoxy.
 - 6. (Original) The method of claim 1 wherein said low Z material panel is made of water.

- 7. (Original) The method of claim 1 further comprising a radiation shield coupled to said low Z material panel, said low Z material panel located between said object and said radiation shield.
- 8. (Original) The method of claim 7 wherein said radiation shield comprises an x-ray absorbing material.
 - 9. (Original) The method of claim 8 wherein said x-ray absorbing material is steel.
 - 10. (Original) The method of claim 8 wherein said x-ray absorbing material is lead.
 - 11. (Original) The method of claim 7 wherein said radiation shield is about 1mm thick.
- 12. (Original) The method of claim 1 wherein said low Z material panel is located above said object.
- 13. (Original) The method of claim 1 wherein said low Z material panel is located below said object.
- 14. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for detecting concealed items on or in an object, said method comprising:

producing a pencil beam of x-rays from an x-ray source directed toward said object; scanning said beam of x-rays over the surface of said object; and

detecting x-rays scattered from said beam of x-rays as a result of interacting with said object and a low Z material panel, said object located between said detector and said panel, wherein said object and concealed items transmit substantially no through x-rays.

15. (Currently Amended) An apparatus to detect concealed items on or in an object, the apparatus comprising:

an x-ray source to produce a pencil beam of x-rays directed toward said object;
a scanner to scan said beam of x-rays over the surface of said object; and
a detector to detect x-rays scattered from said beam of x-rays as a result of interacting
with said object and a low Z material panel, said object located between said detector and said

16. (Original) The apparatus of claim 15 further comprising a processor to generate a signal representative of the intensity of the x-rays scattered.

panel, wherein said object and concealed items transmit substantially no through x-rays.

- 17. (Original) The apparatus of claim 16 further comprising a display to display said signal.
- 18. (Original) The apparatus of claim 15 wherein said low Z material panel is made polyethylene.
- 19. (Original) The apparatus of claim 15 wherein said low Z material panel is made of epoxy.

- 20. (Original) The apparatus of claim 15 wherein said low Z material panel is made of water.
- 21. (Original) The apparatus of claim 15 further comprising a radiation shield coupled to said low Z material panel, said low Z material panel located between said object and said radiation shield.
- 22. (Original) The apparatus of claim 21 wherein said radiation shield comprises an x-ray absorbing material.
 - 23. (Original) The apparatus of claim 22 wherein said x-ray absorbing material is steel.
 - 24. (Original) The apparatus of claim 22 wherein said x-ray absorbing material is lead.
- 25. (Original) The apparatus of claim 21 wherein said radiation shield is about 1mm thick.
- 26. (Original) The apparatus of claim 15 wherein said low Z material panel is located above said object.
- 27. (Original) The apparatus of claim 15 wherein said low Z material panel is located below said object.